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# LAND TITLE MAPPER PROGRESS REPORT

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Volume 2, Issue 2

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## Another LTM Milestone

This July, GDSC delivered LTM Land Status coverages for all of the reservations within the Billings' LTRO jurisdiction. This milestone was achieved three months earlier than scheduled. The new LTM produces maps concurrent with LRIS as of the last LTM database update. Aberdeen reservations are rapidly nearing completion to be followed by the Albuquerque, Anadarko, Portland and Sacramento area reservations.



## A Return Engagement

Rod Skinner and Colleen Keeling flew to Billings to install LTM version 3.1, deliver the current ARC/INFO Land Status coverages for every Billings Area Office reservation, and train the LTRO staff in the care and feeding of LTM.

Within two hours of arrival, reservation maps were being plotted that reflected current LRIS data. The next morning, Darryl LaCounte, Billings Area Land Title Records Officer, was shown how simple it was to produce maps using LTM. Later that day Darryl asked Rod to operate LTM and help answer a question from a local attorney concerning the number of acres in a particular trust parcel. Rod suggested Darryl do it, which he proceeded to do. The fact that LTM maps reflect current LRIS records is critical for fast accurate response to inquiries.

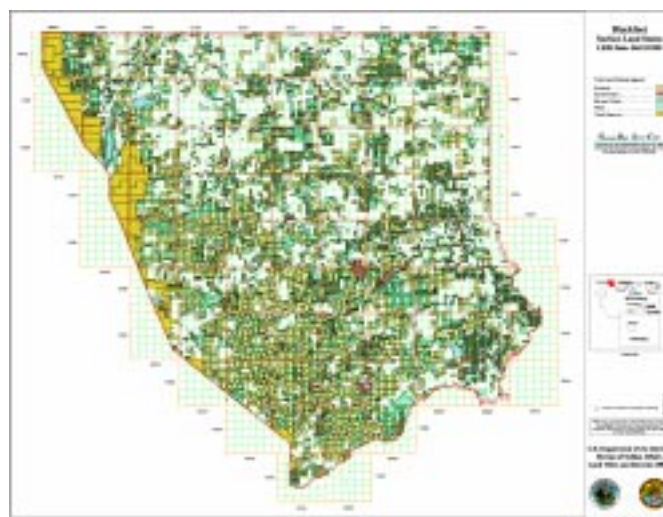
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## LTM Version 3.1

The latest and greatest version of LTM is available for release to designated pilot sites. The new program is quicker, slicker and trickier. Tract-in-context maps are created within a few seconds while reservation maps take less than a minute. This version of LTM requires the database format produced by the GDSC parcelizer, and will be delivered along with the computer generated reservation data.

## The Emperor's New Clothes

LTM version 3.1 boasts an all new appearance for its maps. The reservation and township maps printed on the HP755CM conserve paper by eliminating large areas of whitespace and concentrating the metadata and legend information on the right side of the map. Locator maps have been added to both of the large format products and projection information now appears on all LTM maps. LTM no longer creates segment maps – a holdover from paper manuscripts.



## Good Things ... Small Packages

The LTM township maps can now be directed to the LTM printer. This means a clear, concise, readable township map can be produced at 8.5" x 11". This was a big hit at the Billings LTRO. These letter size township maps make

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## Darryl Says ...

According to Mr. LaCounte, “The LTM system in Billings is the best new management tool for LTRO data since the inception of LRIS. Besides the maps that can be produced by the system, the on-screen access has already been proven to be a valuable tool to deal with day-to-day questions and inquiries concerning land status, tract numbers and acreage amounts. This will certainly make life easier for us at the field level.”



## Making Our Job Easier

Six Billings’ LTRO employees were shown how to use LTM – Stephanie Cree, Glenna Emhoolah, Sarah Falls Down, Jolene Fritzler, Vianna Stewart and Rebecca Stovall. Colleen presented a 30 minute introduction to LTM. Each trainee proceeded to create maps of particular interest to her. Ms. Stewart says, “I have been using LTM almost everyday. It is user-friendly and makes our job much easier. It’s great for land titles, and improves the service we provide our clients. Now that we have it, I wouldn’t want to be without it.”

## Management Review

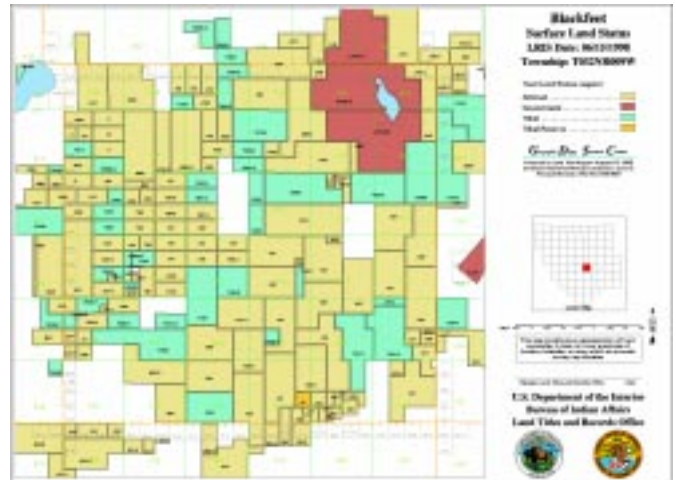
Bill Bonner, GDSC Director, and Randy McKinley, CDSI Technical Program Manager also arrived in Billings to evaluate the use of the LTM system and observe the reactions of the LTRO staff to the new software and data. They discussed the future utility of LTM and schedules for the inclusion of resource data themes (transportation, hydrography, political) to augment the parcel coverages. While in Billings, Rod demonstrated LTM for John Anevski, Douglas Davis and Steven Pollock of the Water Resources Branch. Mr. Davis took the controls of LTM and, after creating and viewing a few maps, commented how helpful this could be if it contained irrigation data. Who’s next?? ♦



## Parcelizer Update

The GDSC Parcelizer process marches on. PLS data and current LRIS data from the Albuquerque Operations Service Center (OSC) are being fed to the Parcelizer programs daily. ARC/INFO LTM Surface and Mineral coverages result. The Parcelizer is successfully processing from 95 to 98% of the “good” LRIS records. GILDA, VODOO, GODZILLA and AMOEBA make up the suite of Parcelizer programs. These are fully discussed in the LTM Progress Report, Volume 2, Issue 1 which is available from the GDSC home page at <http://gdsc.bia.gov>. The maintenance component of Parcelizer, LUCY, will be in Beta testing by the end of the calendar year. ♦

wonderful reservation-wide pseudo “land plat” books, when bound and laminated. A newly formatted scalebar also makes its debut on all LTM products.



## A River Still Runs Through It

The addition of map reference data, such as location names, transportation, hydrography, and political boundaries to the LTM database for Billings’ reservations is currently underway. These data significantly enhance the LTM maps for readability, ancillary information and location context. ♦

## LTM Database Status

The GDSC is pleased to announce the completion of all eleven Billings area LTM land status databases designed for use by the LTM mapping application software. Database completion is defined by successfully generating GIS land status tracts via the parcel generator software directly from current LRIS land records. Also, seven of Aberdeen’s reservations have been finished. Completed databases as of July 1998, include:

- Blackfeet, Billings LTRO
- Crow, Billings LTRO
- Crow Ceded, Billings LTRO
- Fort Belknap, Billings LTRO
- Fort Peck, Billings LTRO
- Northern Cheyenne, Billings LTRO
- Wind River, Billings LTRO
- Rocky Boy’s, Billings LTRO
- Turtle Mtn PDA 224/226/227, Billings LTRO
- Fort Berthold, Aberdeen LTRO

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## GDSC's Home Page

The GDSC Home Page <http://gdsc.bia.gov> contains all kinds of interesting goodies and links. We urge you to check it out often. The current training schedule and class availability is only one of the informative sections. LTM database status maps are available for viewing and printing. LTM sample township maps are also available. This LTM Progress Report is accessible via our home page as well as an AML reference page, upcoming events of interest to our clients in Indian Country, FY 98 training registration form, "online" version of the Quarterly Service Center Review, and local lodging and transportation information for those planning a visit to GDSC.



### With a Little Help ...

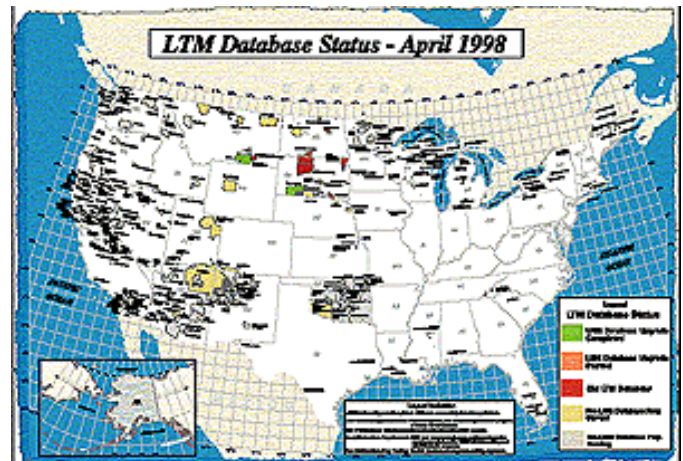
We continually strive to improve our Home Page by presenting fresh and interesting information for our clients. We welcome any suggestions, ideas or comments from our user community! You can reach the GDSC Webmaster at [gdsc@gdsc.bia.gov](mailto:gdsc@gdsc.bia.gov). ♦

## The LRIS Connection

GDSC has successfully linked near real-time LRIS data with the Land Status ARC/INFO coverages generated by the Parcelizer process. This was done through a standard database Connect command within ARC to an Open Database Connectivity (ODBC) NT Database. Maps created using this type of information are currently being used in congressional hearings to support legislation advocated by the Bureau to resolve the fractionated heirship issue.

The potential products within the very near future will

- Fort Totten, Aberdeen LTRO
- Standing Rock, Aberdeen LTRO
- Turtle Mountain, Aberdeen LTRO
- Yankton, Aberdeen LTRO
- Leech Lake, Minneapolis LTRO
- White Earth, Minneapolis LTRO
- Fort Sill Apache, Anadarko LTRO
- Navajo (NM), Albuquerque LTRO



### LTM Database Status Map

A copy of this map depicting current LTM database status resides on the GDSC WebPages. This map will be updated on a regular basis and will graphically display LTM database progress. To view the map image, go to the GDSC WebPages at <http://gdsc.bia.gov>, click on [Computer Services](#), click on [Land Title Mapper](#), then click on [Status Map](#). The Adobe Acrobat reader is required to view our maps and is available from the GDSC homepage for download, through a link to Adobe's WebPages.

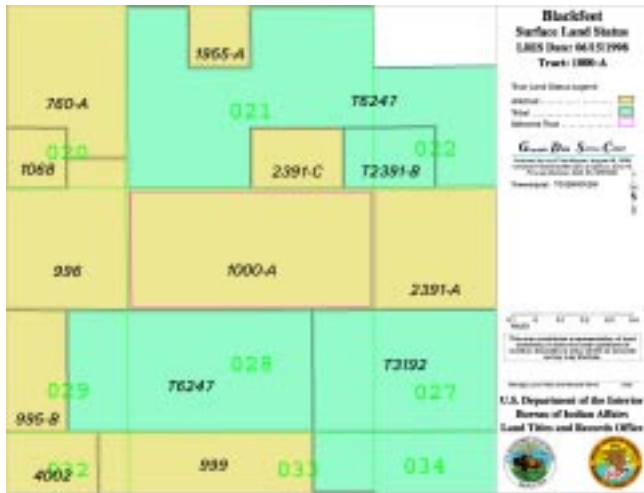
### Parcelizer in Motion

Numerous LTM databases are currently in the process of being upgraded to completed status. These GIS databases are in the process of having the Parcelizer applied, edited and verified by LTM database staff. LTM databases that are currently in this 'LRIS Database Upgrade Started' category include:

- Lower Brule, Aberdeen LTRO
- Cheyenne River, Aberdeen LTRO
- Crow Creek, Aberdeen LTRO
- Pineridge, Aberdeen LTRO



involve access to land-use, ownership, encumbrance data, lease expirations, individual land ownership maps and much much more. If anyone has suggestions as to how this information can be used to help a Realty process please contact GDSC. ♦



An LTM Tract-in-Context Map

## • Rosebud, Aberdeen LTRO

### Next in the Queue

Numerous other reservations are in the beginning stages of building Land Status from LRIS data. This category of LTM database production includes activities such as generation of an LRIS land status record errors and inconsistencies report (GODZILLA reports), and a GIS Public Land Survey System (PLSS) database editing and modification progress report. LTM requires a specific GIS database design built on a foundation of Public Lands Survey System GIS data which, in turn, is used as input for the creation of tracts via the GDSC Parcel Generator.

Among the reservations being prepared for parcelization are:

- Mille Lacs, Minneapolis LTRO
- Sisseton, Aberdeen LTRO
- Menominee, Minneapolis LTRO
- Lac du Flambeau, Minneapolis LTRO
- Stockbridge, Minneapolis LTRO
- Grand Portage, Minneapolis LTRO
- Sac & Fox (KS), Anadarko LTRO
- Kickapoo (KS), Anadarko LTRO
- Navajo (AZ), Albuquerque LTRO

### Plan it Again Sam

A documented 'LTM Database Production Plan', developed by GDSC Database and Data Entry staff, keeps the whole process smoothly on course from start to finish. ♦

## QUESTIONS AND ANSWERS

Q: How can I find out more about LTM?

A: Contact Mark Zundel at the GDSC (303) 231-5100 ext. 315.

Q: When will the next release of LTM be available?

A: Version 3.1 of LTM now available and installed at Billings Area Office with Aberdeen to be completed soon.

Q: Will ArcView play a role in the future of LTM?

A: Absolutely, when the demand justifies the time necessary to convert the LTM land status data to shape files and create a few scripts to facilitate their use.

Q: Where do I report problems with LTM?

A: Call the GDSC helpdesk at (303) 231-5120.

Q: How soon will LTM be available to me?

A: GDSC has committed to the

completion of Aberdeen and Billings Area reservations, including Minneapolis, by the end of October.

A reservation priority schedule is pending from Central Office for the remaining Area Offices.

Q: Will LTM maps contain other cartographic features?

A: Yes! LTM is designed to accommodate other GIS base themes such as roads, railroads, hydrography, political boundaries, utilities, etc. Billings coverages are currently under construction.